



M/s. BIMAL PHARMA PVT. LTD.
Mumbai, India

TYPICAL CERTIFICATE OF ANALYSIS

Name of Product : TITANIUM DIOXIDE (CI 77891) (COSMETIC GRADE)

CAS No. : 13463-67-7

Shelf Life : 5 Years

SR. No.	ITEM	SPECIFICATION	RESULT
1.	CHARACTERISTICS	White to slightly colored Powder	White Powder
2.	IDENTIFICATION SOLUBILITY	Insoluble in water and Organic Solvents. Dissolves slowly in Hydrofluoric Acid and in hot concentrated Sulphuric Acid.	Conforms
3.	LOSS ON DRYING (105°C, 3 HOURS)	0.5% Max.	0.27%
4.	LOSS ON IGNITION A VOLATILE MATTER FREE BASIS (800°C)	1.0% Max.	0.30%
5.	WATER SOLUBLE SUBSTANCE	0.5% Max.	0.16%
6.	ACID SOLUBLE SUBSTANCE (0.5N HCl) ALUMINA / SILICA FREE	0.5% Max.	0.24%
7.	ACID SOLUBLE SUBSTANCE (0.5N HCl) CONTAINING ALUMINA / SILICA	1.5% Max.	Not Applicable
8.	LEAD (0.5N HCl SOLUBLE)	10 PPM Max.	3.25 PPM
9.	ARSENIC (0.5N HCl SOLUBLE)	1 PPM Max.	0.60 PPM
10.	ANTIMONY (0.5N HCl SOLUBLE)	2 PPM Max.	0.57 PPM
11.	MERCURY (0.5N HCl SOLUBLE)	1 PPM Max.	< 0.01 PPM
12.	CADMIUM (0.5N HCl SOLUBLE)	1 PPM Max.	< 0.01 PPM
13.	pH (50% WATER SUSPESSION)	6.0-8.0	7.22
14.	RETENTION OF MATERIAL ON 400 MESH	0.5% Max.	0.1%
15.	AL ₂ O ₃ AND / OR SiO ₂	2.0% Max.	<0.02%
16.	WHITENESS	98.0% Min.	98.60%
17.	ASSAY (TiO ₂) ALUMINA / SILICA FREE	99.0% Min.	99.20%
MICROBIOLOGY TEST			
18.	TOTAL AEROBIC COUNT	100 cfu/gms. Max.	Conforms
19.	YEASTS & MOULDS	100 cfu/gms. Max.	Conforms

20.	ENTEROBACTERIACEAE	Not Detected	Conforms
21.	E.COLI	Not Detected	Conforms
22.	SALMONELLA	Not Detected	Conforms
23.	P.AERUGINOSA	Not Detected	Conforms
24.	S.AUREUS	Not Detected	Conforms
25.	CLOSTRIDIA	Not Detected	Conforms
CONCLUSION : COMPLIES WITH CI 77891 / P.C.P.C. / C.T.F.A.			